

## PATENT COOPERATION TREATY

**PCT**INTERNATIONAL SEARCH REPORT  
(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference S1680181	FOR FURTHER ACTION <b>RECEIVED</b>	see Form PCT/ISA/220 as well as, where applicable, item 5 below
International application No. <b>PCT/CA2005/000158</b>	International filing date (day/month/year) 09 February 2005 (09-02-2005) APR 04 2005	Priority date (day/month/year) 09 February 2004 (09-02-2004)
Applicant <b>SIMON FRASER UNIVERSITY ET AL</b> <b>OYEN WIGGS GREEN &amp; MUTALA</b>		

This international search report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This international search report consists of a total of 5 sheets.

It is also accompanied by a copy of each prior art document cited in this report.

1. **Basis of the report**
  - a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
 

The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).
  - b.  With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.
2.  Certain claims were found unsearchable (see Box No. II).
3.  Unity of invention is lacking (see Box No. III).
4. With regard to the title,
 

the text is approved as submitted by the applicant.

the text has been established by this Authority to read as follows :
5. With regard to the abstract,
 

the text is approved as submitted by the applicant.

the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.
6. With regard to the drawings,
  - a. the figure of the drawings to be published with the abstract is Figure No. 1
 

as suggested by the applicant.

as selected by this authority, because the applicant failed to suggest a figure.

as selected by this Authority, because this figure better characterizes the invention.
  - b.  none of the figures is to be published with the abstract.

**Box No. II      Observations where certain claims were found unsearchable (Continuation of item 2 of the first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons :

1. [ ] Claim Nos. :

because they relate to subject matter not required to be searched by this Authority, namely :

2. [ ] Claim Nos. :

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically :

3. [X] Claim Nos. : 17

because they are dependant claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III      Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows :

1. [ ] As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. [ ] As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. [ ] As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claim Nos. :
4. [ ] No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claim Nos. :

**Remark on Protest**    [ ] The additional search fees were accompanied by the applicant's protest.

                          [ ] No protest accompanied the payment of additional search fees.

## A. CLASSIFICATION OF SUBJECT MATTER

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

C30B30/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic database(s) consulted during the international search (name of database(s) and, where practicable, search terms used)

Delphion, all international patent documents until present using keywords such as: "nucleation", "charge", "ion", "crystallization", "containerless" etc.

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
A	US 5 382 801 (Agency of Industrial Science and Technology, Japan) 17 January 1995 (17-01-1995) pp. 1-14	1-57
A	CA 2 434 866 (Chemical Holovoice AB, Sweden) 25 July 2002 (25-07-2002) pp. 1-6	1-57
A	US 6 846 578 B2 (E. Kumacheva <i>et al.</i> , Canada) 25 January 2005 (25-01-2005) pp. 1-11	9-12, 15-16 and 19

 Further documents are listed in the continuation of Box C. See patent family annex.

\* Special categories of cited documents :  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier application or patent but published on or after the international filing date  
 "L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search

18 March 2005 (18-03-2005)

Date of mailing of the international search report

30 March 2005 (30-03-2005)

Name and mailing address of the ISA/CA  
 Canadian Intellectual Property Office  
 Place du Portage I, C114 - 1st Floor, Box PCT  
 50 Victoria Street  
 Gatineau, Quebec K1A 0C9

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/CA2005/000158

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No(s).
A	US 6 630 006 B2 (The Regents of the University of California, US) 7 October 2003 (07-10-2003) pp. 1-87	1-57

## INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.  
PCT/CA2005/000158

<u>Patent Document Cited</u>	<u>Publication Date</u>	<u>Patent Family Members</u>	<u>Publication Date</u>
US 5 382 801	17-01-1995	JP05294800 JP95112539 JP2081671	15-04-1992 15-04-1992 15-04-1992
CA 2 434 866	25-07-2002	EP1360349 A1 JP2004532974 T US20030049642 A1 WO200257520 A1	12-11-2003 28-10-2004 13-03-2003 25-07-2002
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US 6 630 006	07-10-2003	AU200055996 A AU-777212 B2 CA2377071 A1 CA2446572 A1 EP1204467 A1 EP1385594 A1 IL-146628 D0 JP2003502652 T MXPA01012796 A US20020160426 A1 US20020143153 A1 US20020155504 A1 US20020173052 A1 US20020182637 A1 US20030109046 A1 US20030109063 A1 US20030109064 A1 US20030096293 A1 US20030096294 A1 US20030109065 A1 US20030109066 A1 US20030119048 A1 US20030113804 A1 US6296673 B1 US20020110816 A1 WO200078445 A1 WO200289943 A1	09-01-2001 07-10-2004 28-12-2000 14-11-2002 15-05-2002 04-02-2004 25-07-2002 21-01-2003 02-09-2002 31-10-2002 03-10-2002 24-10-2002 21-11-2002 05-12-2002 12-06-2003 12-06-2003 12-06-2003 22-05-2003 22-05-2003 12-06-2003 12-06-20063 26-06-2003 19-06-2003 02-10-2001 15-08-2002 28-12-2000 14-11-2002